### AMPEREX TRANSMITTING TUBE 203-A

# R.F. Power Amplifier, Oscillator, A.F. Power Amplifier, Modulator

# MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

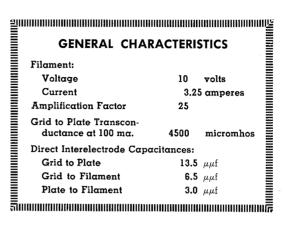
#### A.F. Power Amplifier or Modulator-Class B

	Maximum Rating per Tube	Typical Operation Two Tubes	
A.C. Filament Voltage		10	10
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage		-35	<b>-45</b>
Load Resistance (per tube) (ohms)		1725	2250
Effective Load Resistance (Plate to Plate) (ohms)		6900	9000
Zero Signal Plate Current (n	nα.)	26	26
Peak A.F. Grid to Grid Volt	age	270	300
Max. Signal D.C. Plate Current (ma.)	1 <b>7</b> 5	320	320
Max. Signal Plate Input (watts)	220	320	400
Plate Dissipation (watts)	100		
Max. Signal Driving Power (Approx.) (watts)  Max. Signal Plate Power		5	7
Output (watts)		216	280

#### R.F. Power Amplifier—Class B—Telephony

(Carrier conditions for use with modulation factor of 1.0)

	Maximum Rating per Tube	Typical Operation One Tube	
A.C. Filament Voltage		10	10
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage		-20	<b>—37</b>
Peak R.F. Grid Voltage		80	85
D.C. Plate Current (ma.)	150	130	116
Plate Input (watts)	150	130	145
Plate Dissipation (watts)	100	90	95
D.C. Grid Current (Approx.) (ma.)	• •	5	4.5
Driving Power at Peak			
Modulation (Approx.) (wa	tts)	2	3
Plate Power Output (watts)		40	50
Frequency Limit for Above			
Operation (megacycles)	15	20	15



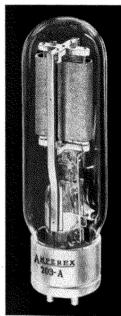
## Plate Modulated R.F. Power Amplifier Class C—Telephony

(Carrier conditions for use with modulation factor of 1.0)

	Maximum Rating per Tube	Typical Operation One Tube	
A.C. Filament Voltage		10	10
D.C. Plate Voltage	1000	750	1000
D.C. Grid Voltage	400	-100	-135
Peak R.F. Grid Voltage		230	265
D.C. Plate Current (ma.)	175	150	150
Plate Input (watts)	175	112	150
Plate Dissipation (watts)	67	37	40
D.C. Grid Current (Approx.) (ma.)	60	25	20
Driving Power (Approx.)			
(watts)		5	5
Plate Power Output (watts)		75	110
Frequency Limit for Above Operation (megacycles)	15	30	15
F.C.C. Broadcast Rating (watts)	75		75

#### R.F. Power Amplifier or Oscillator—Class C Telegraphy

	Rating per Tube	Typical Operation One Tube	
A.C. Filament Voltage		10	10
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage	-400	-135	-150
Peak R.F. Grid Voltage	_	265	280
D.C. Plate Current (ma.)	175	160	170
Plate Input (watts)	220	160	212
Plate Dissipation (watts)	100	40	60
D.C. Grid Current (Approx.) (ma.)	60	18	11
Driving Power (Approx.) (watts)		5	3
Plate Power Output (watts)		120	152
Frequency Limit for Above Operation (megacycles)	15	30	15



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